



Smart  
connections.

Data sheet

PLENTICORE plus 3.0-10

# plus

# PLENTICORE plus: The new standard – versatile and smart

## All-in-one

PV hybrid inverter with battery input with optional activation code<sup>1, 3)</sup>

Compatibility with various high-voltage batteries<sup>2, 3)</sup>

3 MPP trackers suited to the layout of almost all roofs

Extended MPP range – perfect for repowering

## Smart connected

Smart Communication Board – future proof, new functions can be added via the integrated Web Application

Display, data logger, system monitoring, network and control interfaces integrated as standard, WLAN Ready via external USB WLAN adapter<sup>2)</sup>

Free Solar Portal for monitoring the PV system

EEBus and Sunspec for Smart Home integration

## Smart performance

Fast, self-learning shadow management – adapts individually to the installation site

Dynamic active power control and 24-hour home-consumption measurement<sup>3)</sup>

Self-learning generation and consumption forecast – for optimum self-consumption<sup>3)</sup>

Low conversion losses due to DC coupling and high-voltage battery

Prepared for additional battery charge via AC energy sources<sup>3)</sup>

## Easy to install

Simple device configuration using commissioning wizard

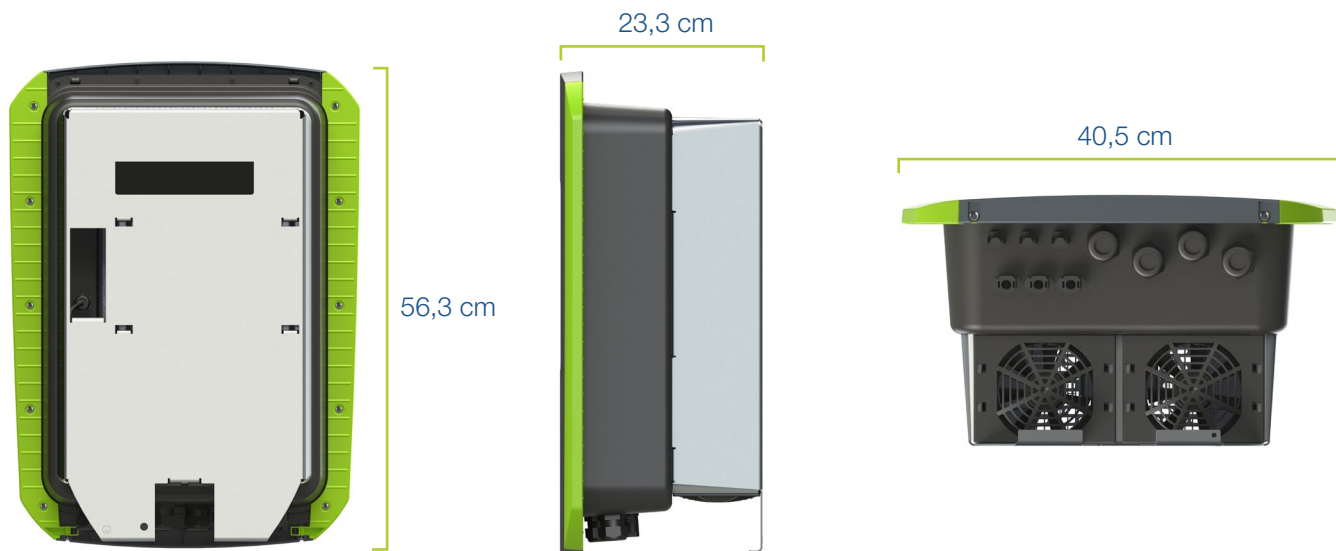
Safe installation due to clearly arranged, separate terminal compartment and protected power electronics

Compatible with RCD type A

Auto update and remote support<sup>2)</sup>



# PLENTICORE plus: compact and rapidly deployable



<sup>1)</sup> Activation code battery available at: [shop.kostal-solar-electric.com](http://shop.kostal-solar-electric.com)

<sup>2)</sup> Available later on via software update

<sup>3)</sup> KOSTAL Smart Energy Meter required



Power class		3.0	4.2	5.5	7.0	8.5	10	
System data	Topology: Without galvanic isolation – transformerless				✓			
	Protection class according to IEC 60529				IP 65			
	Protective class according to IEC 62103				I			
	Overvoltage category according to IEC 60664-1, input side (PV generator)				II			
	Overvoltage category according to IEC 60664-1, output side (grid connection)				III			
	Degree of contamination				4			
	Environmental category (outdoor installation)				✓			
	Environmental category (indoor installation)				✓			
	UV resistance				✓			
	AC cable diameter (min-max)	mm				8...17		
	AC cable cross-section (min-max)	mm <sup>2</sup>		1.5...6		2.5...6	4...6	
	DC cable cross-section (min-max)	mm <sup>2</sup>				2,5...6		
	Max. fuse protection on output side					B16/C16	B25/C25	
	Internal operator protection according to EN 62109-2 (compatible with RCD type A from FW 01.14)					✓		
	Independent disconnection device according to VDE 0126-1-1					✓		
	Height/width/depth	mm (in)				563/405/233 (22.17/15.94/9.17)		
	Weight	kg (lb)		19.6 (43.21)		21.6 (46.62)		
	Cooling principle – regulated fans					✓		
	Max. air throughput	m <sup>3</sup> /h				184		
	Noise emission (typical)	dB(A)				39		
Ambient temperature	°C (°F)				-20...60 (-4...140)			
Max. installation altitude above sea level	m (ft)				2000 (6562)			
Relative humidity	%				4...100			
Connection technology, DC side					SUNCLIX plug			
Connection technology, AC side					Spring-type terminal strip			
Interfaces	Ethernet LAN (RJ45)				1			
	Connection of energy meter for collecting energy data (Modbus RTU)				1			
	Digital inputs (e.g. for digital ripple control receiver)				4			
	USB 2.0				1			
	Potential-free contact for self-consumption control				1			
	Webserver (user interface)				✓			
	KOSTAL Smart Warranty / Warranty <sup>1)</sup>	Years				5 (2)		
	Optional warranty extension for (years)					5/10/15		
Directives/Certification <sup>2)</sup>		CE, GS, CEI 0-21, CEI10/11, EN 62109-1, EN 62109-2, EN 60529, EN 50438*, EN 50549-1*, ENA/EEA, G98, G99, IFS2018, IEC 61727, IEC 62116, RD 1699, RFG, TF3.3.1, TOR Erzeuger, UNE 206006 IN, UNE 206007-1 IN, UTE C15-712-1, VDE 0126-1-1, VDE-AR-N 4105, VJV2018						

Subject to technical changes. Errors excepted. You can find current information at [www.kostal-solar-electric.com](http://www.kostal-solar-electric.com). Manufacturer: KOSTAL Industrie Elektrik GmbH, Hagen, Germany

<sup>1)</sup> KOSTAL Smart Warranty: 5-year warranty only after registration in the KOSTAL Solar online shop

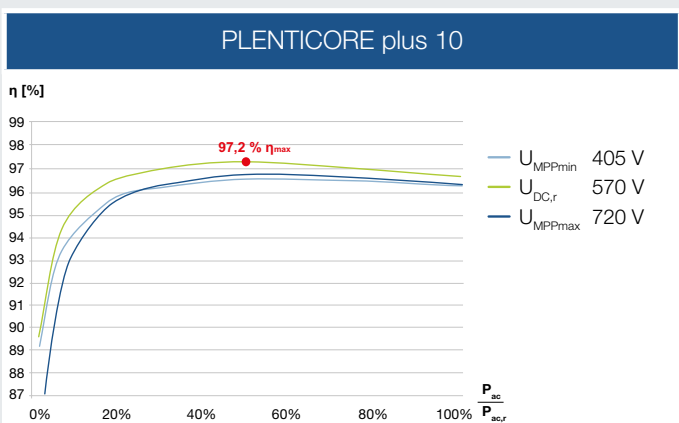
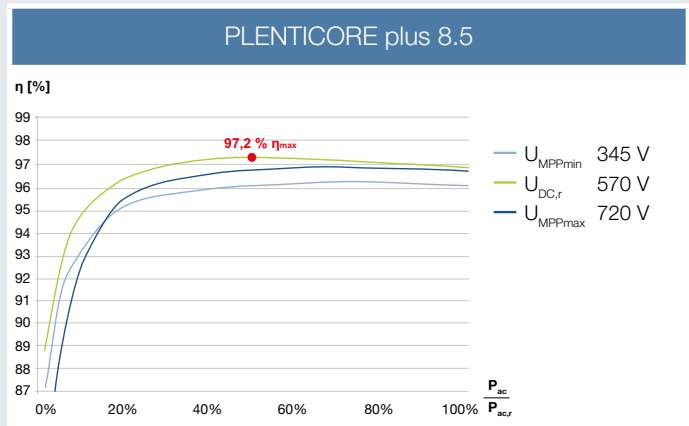
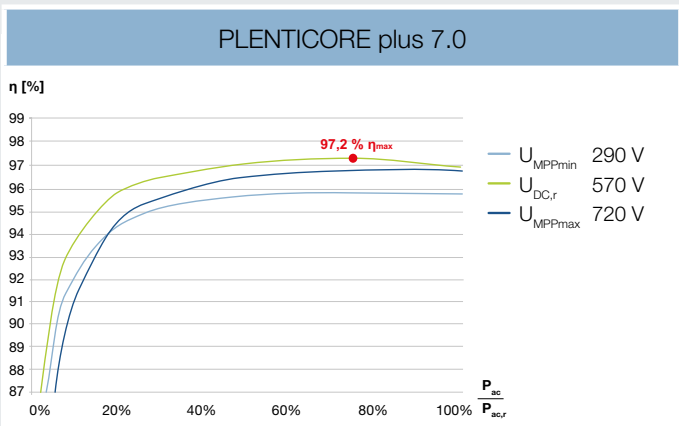
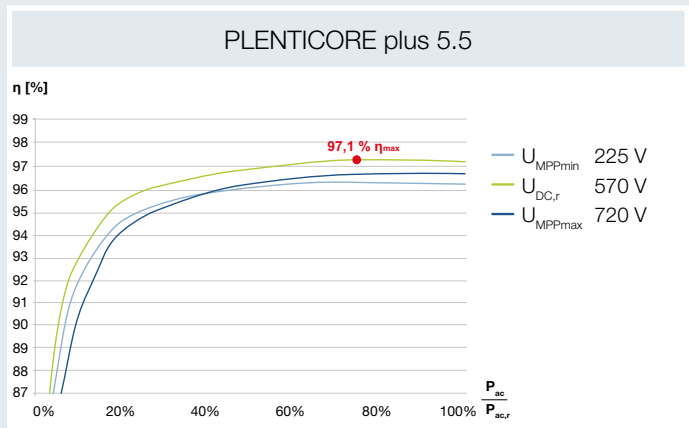
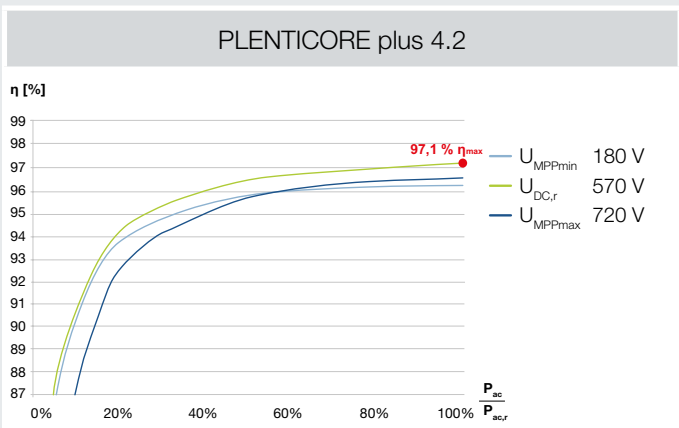
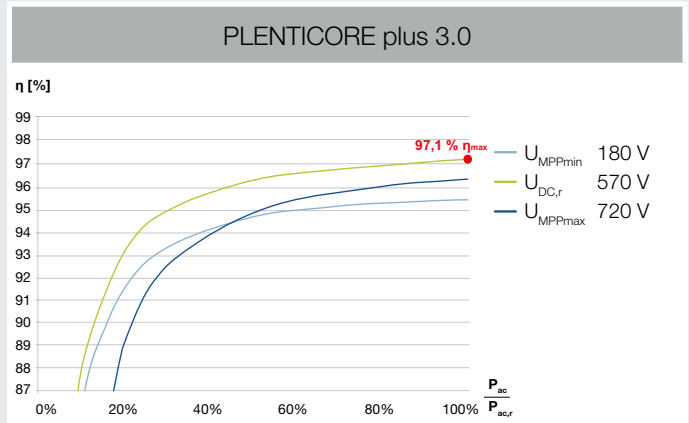
<sup>2)</sup> Does not apply to all national annexes

<sup>3)</sup> MPP range of 120 V...180 V (with limited current of 9.5-13 A). MPP range of 680 V...720 V (with limited current of 11 A). Detailed layout can be seen in KOSTAL (PIKO) Solar Plan.

# PLENTICORE plus available in 6 power classes



- 3.0
- 4.2
- 5.5
- 7.0
- 8.5
- 10



## Services for our products

FAQs:  
[kostal-solar-electric.com/Service\\_Support](http://kostal-solar-electric.com/Service_Support)

Product registration, KOSTAL Smart Warranty, warranty extension, battery activation code or purchase of accessories: [shop.kostal-solar-electric.com](http://shop.kostal-solar-electric.com)

Get in touch: [service-solar@kostal.com](mailto:service-solar@kostal.com)

# KOSTAL

KOSTAL Solar Electric GmbH  
Hanferstr. 6  
79108 Freiburg i. Br.  
Deutschland  
Telefon: +49 761 47744 - 100  
Fax: +49 761 47744 - 111

KOSTAL Solar Electric Ibérica S.L.  
Edificio abm  
Ronda Narciso Monturiol y Estarriol, 3 Torre  
B, despachos 2 y 3  
Parque Tecnológico de Valencia  
46980 Valencia  
España  
Teléfono: +34 961 824 - 934  
Fax: +34 961 824 - 931

KOSTAL Solar Electric France SARL  
11, rue Jacques Cartier  
78280 Guyancourt  
France  
Téléphone: +33 1 61 38 - 4117  
Fax: +33 1 61 38 - 3940

KOSTAL Solar Electric Hellas E.Π.Ε.  
47 Steliou Kazantzidi st., P.O. Box: 60080 1st  
building – 2nd entrance  
55535, Pilea, Thessaloniki  
Ελλάδα  
Τηλέφωνο: +30 2310 477 - 550  
Φαξ: +30 2310 477 - 551

KOSTAL Solar Electric Italia Srl  
Via Genova, 57  
10098 Rivoli (TO)  
Italia  
Telefono: +39 011 97 82 - 420  
Fax: +39 011 97 82 - 432

KOSTAL Solar Elektrik Turkey  
Mahmutbey Mah. Taşocağı Yolu Cad.  
No:3 (B Blok), Ağaoğlu My Office 212  
Kat:16, Ofis No:269  
Bağcılar - İstanbul / Türkiye  
Telefon: +90 212 803 06 24  
Faks: +90 212 803 06 25

[www.kostal-solar-electric.com](http://www.kostal-solar-electric.com)